International application No.

			PCT/NZ2004/000316
A.	CLASSIFICATION OF SUBJECT MATTER	•	
Int Cl.":	A01M 23/00		•
According to	International Patent Classification (IPC) or to bo	th national classification and IPC	
B <sub>i</sub>	FIELDS SEARCHED		
Minimum docu	mentation scarched (classification system followed by	classification symbols)	
Documentation	searched other than minimum documentation to the ex	stant that could document on include 2	- d. 6.14 1
Blectronic data DWPI, US, I	base consulted during the international search (name of EP and JP databases with keywords (eg A011	of data base and, where practicable, sea M 23/ic, resilient, ring)	rch terms used)
C.	DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.
	Patent Abstracts of Japan, JP 2001-333683	(MORIBE IKUO) 4 December	2001
x	Abstract		1-27
x	US 5177896 A (MIYASAKI) 12 January 1 Entire document	993	1-27
x	US 2247066 A (POPP) 24 June 1941 Entire document		1-27
x	Patent Abstracts of Japan, JP 2003-070408 Abstract	(MURAKAMI HIDEAKI) 11 N	farch 2003
Fı	wither documents are listed in the continuation	n of Box C X See pater	nt family annex
Special cardiac document not consider "E" carlier app	ategories of cited documents: defining the general state of the art which is "T" is lifered to be of particular relevance "Different on or patent but published on or after the "X" different but published on or after the "X"	ater document published after the internation on flict with the application but cited to underlying the invention occurrent of particular relevance; the claimed	all filing date or priority date and not in testand the principle or theory
"L" document or which i	which may throw doubts on priority claim(s)  s cited to establish the publication date of	cannot be considered to involve an inventione one ocument of particular relevance; the claimed volve an inventive step when the document	invention cannot be considered to
"O" document or other m	referring to an oral disclosure, use, exhibition	ch documents, such combination being obvocument member of the same patent family	ious to a person skilled in the art
"P" document but later if	published prior to the international filing date san the priority date claimed	•	
	completion of the international search	Date of mailing of the interpational s	earch report
11 April 2005		1 4 A	PR 2005
	g address of the ISA/AU	Authorized officer	
	PATENT OFFICE ODEN ACT 2606, AUSTRALIA		
Email address: p	ct@ipaustralia.gov.au	A SEN	Ì
Facsimile No. (02) 6285 3929 Telephone No : (02) 6283 2158			ŀ

Form PCT/ISA/210 (second sheet) (January 2004)

International application No. PCT/NZ2004/000316

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely.
2. Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international scarch can be carried out, specifically:
an cause that are instanting.— and a second of the second
3. Claims Nos.:  because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)
Box No. M Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
Please refer to the Supplemental Box
1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Anthority did not invite payment of any additional fee.
As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
•
No required additional search fees were timely paid by the applicant. Consequently, this international search report is
4. X No required additional search fees were timely part by the applicant. Consequency, and most additional search fees were timely part by the applicant. Consequency, and most additional search fees were timely part by the applicant. Consequency, and most additional search fees were timely part by the applicant. Consequency, and most additional search fees were timely part by the applicant.
Remark on Protest The additional search fees were accompanied by the applicant's protest.
No protest accompanied the payment of additional search fees.

International application No.

PCT/NZ2004/000316

Supplemental Box

(To be used when the space in any of Boxes I to VIII is not sufficient)

Continuation of Box No: III

The international application does not comply with the requirements of unity of invention because it does not relate to one invention or to a group of inventions so linked as to form a single general inventive concept. In coming to this conclusion the International Searching Authority has found that there are different inventions as follows:

- Claims 1-27 are directed to an extermination device and a method of using the device, wherein the device comprises of a holder and trigger mechanism, the holder being configured to hold an expanded resilient ring.
- 2. Claims 28-30 are directed to a loading device and a method of using the device, wherein the device has a tapering body and a formation at the wide end adapted to engage with the holder of an extermination device.

Since the abovementioned groups of claims do not share any of the technical features identified, a 'technical relationship' between the inventions, as defined in PCT rule 13.2 does not exist. Accordingly the international application does not relate to one invention or to a single inventive concept, a priori.

Information on patent family members

International application No.
PCT/NZ2004/000316

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in			Patent Family Member		
	Search Report	•			1
JР	2001-333683	NIL			
US	5177896	CA	2086774	· · · · · · · · · · · · · · · · · · ·	
US	2247066	NIL			
JP	2003-070408	NIL			

Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

END OF ANNEX

# PATENT COOPERATION TREATY

## **PCT**

# INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 220943-142	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. PCT/NZ2004/000316	International filing date (day/month/ye 6 December 2004	(Earliest) Priority Date (day/month/year) 4 December 2003
Applicant  MCCORMICK, David James (		
This international search report has been preparticle 18. A copy is being transmitted to the	pared by this International Scarching Au	thority and is transmitted to the applicant according to
This international search report consists of a		s report.
1. Basis of the report		
it was filed, unless otherwise indicate	d under this item.	pasis of the international application in the language in which
Authority (Rule 23.1)	<b>Ъ</b> )).	slation of the international application furnished to this
Contain platma ware found up		in the international application, see Box No. I.
2. Certain claims were found and 3. X Unity of invention is lacking (		·
4. With regard to the title,		•
the text is approved as submitted		
the text has been established b	y this Authority to read as follows:	
	·	
5. With regard to the abstract,	ed by the emiliant	•.
the text is approved as submitted the text has been established, and many the date of many		ority as it appears in Box No. IV. The applicant may, within submit comments to this Authority.
one month from the date of me	mine or any michiganonia search rebort.	
6. With regard to the drawings,		10.10
	ablished with the abstract are Figure Nos.	. 10, 17
as suggested by the a	applicant. uthority, because the applicant failed to s	suggest a figure.
\	uthority, because this figure better charac	
b. none of the figures is to be pu		

International application No. PCT/NZ2004/000316

Box No. II	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This intern	ational search report has not been established in respect of certain claims under Article 17(2)(a) for the following
1.	Claims Nos.:
ــا ٠٠	because they relate to subject matter not required to be searched by this Authority, namely:
·	
2.	Claims Nos.:
	because they relate to parts of the international application that do not comply with the prescribed requirements to such
	an extent that no meaningful international search can be carried out, specifically:
3.	Claims Nos.:
	because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)
Box No. I	II Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This Inter	national Searching Authority found multiple inventions in this international application, as follows:
Please	refer to the Supplemental Box
1.	As all required additional search fees were timely paid by the applicant, this international search report covers all
	searchable claims.
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.	As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
1	Covers only mose of animal for which party oppositionary ordinary
	·
4. X	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-27
	restricted to the invention first mentioned in the claims, it is covered by claims 105 1-27
Remark	on Protest The additional search fees were accompanied by the applicant's protest.
	No protest accompanied the payment of additional search fees.
	140 product accompanies the payment of administrations.

International application No. PCT/NZ2004/000316

#### Supplemental Box

(To be used when the space in any of Boxes I to VIII is not sufficient)

#### Continuation of Box No: III

The international application does not comply with the requirements of unity of invention because it does not relate to one invention or to a group of inventions so linked as to form a single general inventive concept. In coming to this conclusion the International Searching Authority has found that there are different inventions as follows:

- Claims 1-27 are directed to an extermination device and a method of using the device, wherein the device comprises of a holder and trigger mechanism, the holder being configured to hold an expanded resilient ring.
- 2. Claims 28-30 are directed to a loading device and a method of using the device, wherein the device has a tapering body and a formation at the wide end adapted to engage with the holder of an extermination device.

Since the abovementioned groups of claims do not share any of the technical features identified, a 'technical relationship' between the inventions, as defined in PCT rule 13.2 does not exist. Accordingly the international application does not relate to one invention or to a single inventive concept, a priori.

International application No. PCT/NZ2004/000316

Box No. IV Text of the Abstract (Continuation of item 5 of the first sheet)

#### First Invention

An extermination device for exterminating pests including a holder, trigger mechanism (6) and a resilient ring (8) mounted on the holder. When a pest actuates the trigger mechanism (6), the ring (8) is released from the holder onto the pest, thereby killing the pest in a humane manner. A cover may be provided to protect the trigger mechanism (6) from dirt and animals larger than target pest size.

#### Second Invention

A loading device (50) having a tapering body adapted to allow a resilient ring (8) to be expanded from the narrow end to the wide end of the tapering body, wherein the wide end includes a formation (51, 52) adapted to engage with a holder of an extermination device.

International application No.
PCT/NZ2004/000316

A.	CLASSIFICATION OF SUBJECT MATTER		
Int. Cl. 7:	A01M 23/00	•	
1	International Patent Classification (IPC) or to both	th national classification and IPC	
B.	FIELDS SEARCHED		
Minimum docu	mentation searched (classification system followed by	classification symbols)	
Documentation	searched other than minimum documentation to the ex	stent that such documents are included in the fields search	hed
Electronic data	base consulted during the international search (name of	f data base and, where practicable, search terms used)	
DWPI, US, 1	EP and JP databases with keywords (eg A01)	M 23/ic, resilient, ring)	
C.	DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.
X	Patent Abstracts of Japan, JP 2001-333683 Abstract	(MORIBE IKUO) 4 December 2001	
	Tioshidot		1-27
	US 5177896 A (MIYASAKI) 12 January 1	993	
Х	Entire document		1-27
X	US 2247066 A (POPP) 24 June 1941 Entire document		
	•		1-27
	Patent Abstracts of Japan, JP 2003-070408	(MIIRAKAMI HIDEAKD 11 Marris 2002	
х	Abstract	· · · · · · · · · · · · · · · · · · ·	1-27
	• .		
☐ Fu	rther documents are listed in the continuation	n of Box C X See patent family anner	<u> </u>
* Special ca	tegories of cited documents:		
	Ct	ter document published after the international filing date or prior profilet with the application but cited to understand the principle	ority date and not in
"E" earlier app	lication or patent but published on or after the "X" do	nderlying the invention  Current of particular relevance; the claimed invention cannot b  Cannot be considered to involve an inventive step when the do	e concidend must
"L" document	which may throw doubts on priority claim(s)	one cument of particular relevance; the claimed invention cannot b	
another eit	in	volve an inventive step when the document is combined with or ch documents, such combination being obvious to a person skil	ne or more other
or other m	cans "&" do	cument member of the same patent family	
but later th	published prior to the international filing date an the priority date claimed		
Date of the actual II April 2005	completion of the international search	Date of mailing of the international search report 4 APR 2005	
	g address of the ISA/AU	Authorized officer	,
AUSTRALIAN P	ATENT OFFICE		
:-mail address: p	ODEN ACT 2606, AUSTRALIA	A SEN	
acsimile No. (0)	4) 0483 3929	Telephone No: (02) 6283 2158	

Information on patent family members

International application No.

PCT/NZ2004/000316

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report			Patent Family Member		
ЛР	2001-333683	NIL	•		 
US	5177896	CA	2086774		
US	2247066	NIL			
JР	2003-070408	NIL			 ···

Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

END OF ANNEX

# This Page is Inserted by IFW Indexing and Scanning Operations and is not part of the Official Record

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

BLACK BORDERS

IMAGE CUT OFF AT TOP, BOTTOM OR SIDES

FADED TEXT OR DRAWING

BLURRED OR ILLEGIBLE TEXT OR DRAWING

SKEWED/SLANTED IMAGES

COLOR OR BLACK AND WHITE PHOTOGRAPHS

GRAY SCALE DOCUMENTS

LINES OR MARKS ON ORIGINAL DOCUMENT

REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY

## IMAGES ARE BEST AVAILABLE COPY.

☐ OTHER:

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.